

1019548

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Distribution block, nom. voltage: 690 V, nominal current: 24 A, number of connections: 13, number of positions: 1, connection method: Push-in connection, Load contact, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², Line contact, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², mounting type: NS 35/7,5, NS 35/15, color: blue

Your advantages

- · Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- · Clear wiring, thanks to eleven different color variants
- · Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- Time savings of up to 80 %, thanks to ready-to-mount blocks without manual bridging
- Space savings of up to 50 % on the DIN rail, thanks to transverse mounting

Commercial data

Item number	1019548
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE09
Product key	BEA223
GTIN	4055626506296
Weight per piece (including packing)	32.11 g
Weight per piece (excluding packing)	32.11 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Notes

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Note	The maximum load current of a single clamping unit must not be exceeded.
	For power distribution applications, IEC 60364-4-43.2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed!

Product properties

Product type	Distributor terminal block
Number of positions	1
Number of connections	13
Number of rows	1
Potentials	1

Data management status

Aı	rticle revision	02

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Service Entrance	yes
Number of connections per level	13
Nominal cross section	2.5 mm²

Load contact

Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
	B3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section, flexible [AWG]	26 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm²



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Nominal current	24 A
Maximum load current	32 A (with 4 mm² conductor cross section)
Maximum total current	57 A (with 10 mm² conductor cross section)
Nominal voltage	690 V
Note	The IEC 60947-7-1 standard applies for the use of mounting accessories.
Nominal cross section	2.5 mm²
ine contact	
Stripping length	10 mm 12 mm
Internal cylindrical gage	A5
3.3	B4
Conductor cross section rigid	0.5 mm² 10 mm²
Cross section AWG	20 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² 6 mm²
Conductor cross section, flexible [AWG]	20 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² 6 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 6 mm²
Conductor cross-section flexible (2 conductors with the same	0.5 mm² 1.5 mm²
cross-section, with TWIN ferrule and plastic sleeve)	
Nominal current	41 A (with 6 mm² conductor cross section)
Maximum load current	57 A (with 10 mm² conductor cross section)
Maximum total current	The maximum load current of the individual terminal point must not be exceeded.
Nominal cross section	6 mm²
Connection in acc. with standard	IEC 60998-2-2
Nominal voltage	450 V (in accordance with IEC 60998-2-2)
oad contact Connection cross sections directly pluggable	
Conductor cross section rigid	0.34 mm² 4 mm²
Conductor cross section, rigid [AWG]	22 18 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² 2.5 mm²
ine contact Connection cross sections directly pluggable	
Conductor cross section rigid	1 mm² 10 mm²
Conductor cross section, rigid [AWG]	18 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm² 6 mm²
The second of th	
nensions	
	41.5 mm
Width	41.511111
Width Height	45.7 mm



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Material specifications

Color	blue (RAL 5015)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Electrical tests

Surge voltage test

	Increase in temperature ≤ 45 K	
	Increase in temperature ≤ 45 K	
	·	
Result	Test passed	
Short-time withstand current 6 mm²	0.72 kA	
Short-time withstand current 10 mm²	1.2 kA	
Result	Test passed	
Power-frequency withstand voltage		
Test voltage setpoint	1.89 kV	
Result	Test passed	

Mechanical properties

Mechanical data	
Open side panel	No

Mechanical tests

Mechanical strength

Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Result	Test passed
Note	When aligning several blocks, it is recommended to either place a DIN rail adapter underneath the connection point or a flange element between the blocks.



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	Fig. 1911 - 191 -
	For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block.
	Depending on the application case and mechanical load, other arrangements of the mounting accessory can also be chosen.
	When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.
est for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm² / 0.3 kg
	6 mm² / 1.4 kg
	10 mm² / 2 kg
Result	Test passed
ging	400
Temperature cycles	192
Result	Test passed
eedle-flame test	
Time of exposure	30 s
Result	Test passed
scillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2018-05
Specification Spectrum	DIN EN 50155 (VDE 0115-200):2018-05 Service life test category 2, bogie-mounted
Spectrum	Service life test category 2, bogie-mounted
Spectrum Frequency	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
Spectrum Frequency ASD level	Service life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz $6.12 \text{ (m/s}^2)^2\text{/Hz}$
Spectrum Frequency ASD level Acceleration	Service life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz $6.12 \text{ (m/s}^2)^2\text{/Hz}$ $3.12g$
Spectrum Frequency ASD level Acceleration Test duration per axis	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h
Spectrum Frequency ASD level Acceleration Test duration per axis Test directions	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z\text{-axis}$
Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z\text{-axis}$
Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z\text{-axis}$ Test passed
Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result nocks Specification Pulse shape	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z-\text{axis}$ Test passed $\text{DIN EN 50155 (VDE 0115-200):2018-05}$
Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result nocks Specification	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z-\text{axis}$ Test passed DIN EN 50155 (VDE 0115-200):2018-05 Half-sine
Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result Test directions Acceleration Acceleration Acceleration	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z\text{-axis}$ $Test \text{ passed}$ DIN EN 50155 (VDE 0115-200):2018-05 Half-sine $30g$
Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result nocks Specification Pulse shape Acceleration Shock duration	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z-\text{axis}$ Test passed $DIN \text{ EN } 50155 \text{ (VDE } 0115-200):2018-05$ Half-sine $30g$ 18 ms
Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result Cocks Specification Pulse shape Acceleration Shock duration Number of shocks per direction	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z\text{-axis}$ Test passed $DIN \text{ EN } 50155 \text{ (VDE } 0115\text{-}200)\text{:}2018\text{-}05$ Half-sine $30g$ 18 ms 3
Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result nocks Specification Pulse shape Acceleration Shock duration Number of shocks per direction Test directions	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z-\text{axis}$ Test passed $DIN \text{ EN } 50155 \text{ (VDE } 0115-200):2018-05$ Half-sine $30g$ 18 ms 3 $X-, Y- \text{ and } Z-\text{axis (pos. and neg.)}$



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Ambient temperature (storage/transport) -25 °C 60 °C (for a short time, no longer than +70°C) Ambient temperature (assembly) -5 °C 70 °C Ambient temperature (actuation) -5 °C 70 °C Permissible humidity (operation) Permissible humidity (storage/transport) Standards and regulations Connection in acc. with standard IEC 60947-7-1 IEC 60998-2-2 Mounting Mounting type NS 35/7,5	
Ambient temperature (actuation) -5 °C 70 °C Permissible humidity (operation) 20 % 90 % Permissible humidity (storage/transport) 30 % 70 % Standards and regulations Connection in acc. with standard IEC 60947-7-1 IEC 60998-2-2 Mounting	24 h, -60°C to
Permissible humidity (operation) Permissible humidity (storage/transport) Standards and regulations Connection in acc. with standard IEC 60947-7-1 IEC 60998-2-2 Mounting	
Permissible humidity (storage/transport) Standards and regulations Connection in acc. with standard IEC 60947-7-1 IEC 60998-2-2 Mounting	
Standards and regulations Connection in acc. with standard IEC 60947-7-1 IEC 60998-2-2 Mounting	
Connection in acc. with standard IEC 60947-7-1 IEC 60998-2-2 Mounting	
Mounting	
-	
Mounting type NS 35/7,5	
NS 35/15	

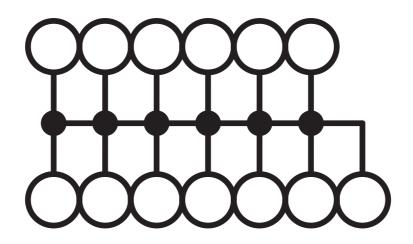


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Drawings

Circuit diagram





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Approvals

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cULus Recognized

Approval ID: E60425



CSA

Approval ID: 13631

DNV

Approval ID: TAE00004R4



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Classifications

ECLASS

	ECLASS-11.0	27141120			
	ECLASS-13.0	27250118			
ET	ETIM				
	ETIM 9.0	EC000897			
UN	SPSC				



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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